

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-29. (Cancelled)

30. (Currently Amended) A method of polling in a packet-based data communications system, said communications system comprising a base station system polling connected user equipment, wherein said polling is performed according to:

a first type of polling allowing said user equipment to choose whether or not to transmit a data packet to the base station system in response to reception of polling of the first type, and

a complementary second type of polling requiring the user equipment to transmit a data packet to the base station system in response to reception of polling of the second type,

wherein said first type comprises polling with an uplink state flag and said second type comprises polling with a control block.

31. (Previously Presented) A method according to claim 30, wherein said base station system performs polling according to the first type on a first logical channel, and performs polling according to the complementary second type on a second logical channel.

32. (Previously Presented) A method according to claim 30, wherein the base station system transmits polling information to said user equipment, said information enabling the user equipment to identify the polling type of the received polling.

33. (Previously Presented) A method according to claim 32, wherein said polling information from the base station system is based on a current radio traffic situation in the communication system.

34. Canceled.

35. (Previously Presented) A method according to claim 30, wherein the communications system is selected from at least one of:

a General Packet Radio Service (GPRS) communication system, an Enhanced GPRS (EGPRS) communication system,

a GPRS/Enhanced Data rates for GSM (Global System for Mobile communications) Evolution (EDGE) communications system,

a Wideband Code Division Multiple Access (W-CDMA) communications system,

a CDMA2000 communications system,

a Wireless Local Area Network (W-LAN) communications system.

36. (Previously Presented) A method according to claim 30,

wherein said user equipment in response to reception of said polling of the second type transmits a user data packet to the base station system if said user data packet is available for transmission in the user equipment, otherwise the user equipment transmits a dummy data packet, and

wherein said user data packet comprises user payload data and said dummy data packet comprises data enabling the base station system to identify the user equipment.

37. Canceled.

38. (Previously Presented) A method according to claim 30, wherein said user equipment in response to reception of said polling of the first type sends a user data packet to the base station system if said user data packet is available for transmission in the user equipment.

39. (Previously Presented) A method according to claim 30, wherein said user equipment in response to reception of said polling of the first type does not send any type of data packet to the base station system if a user data packet is not available for transmission in the user equipment.

40. (Currently Amended) A polling arrangement in a base station system of a packet-based communications system, said polling arrangement being adapted to polling of user equipment, wherein said arrangement comprises:

first means for polling according to a first type, allowing the user equipment to choose whether or not to transmit a data packet in response to reception of the polling, and

complementary second means for polling according to a second type, requiring the user equipment to transmit a data packet or in response to reception of the polling,

wherein said first polling type comprises polling with an uplink state flag and said second polling type comprises polling with a control block.

41. (Previously Presented) A polling arrangement according to claim 40, wherein said arrangement is adapted to perform polling according to the first type on a first logical channel,

and to perform polling according to the complementary second type on a second logical channel.

42. (Previously Presented) A polling arrangement according to claim 40, wherein the arrangement is adapted to transmit polling information to said user equipment, said information enabling the user equipment to identify the polling type of the received polling.

43. (Previously Presented) A polling arrangement according to claim 42, wherein the polling information is based on a current radio traffic situation in the communication system.

44. (Currently Amended) A base station system in a packet-based data communications system, said base station system being adapted to polling connected user equipment, wherein said base station system comprises

- first circuitry adapted for polling according to a first type, said first polling type allowing said user equipment to choose whether or not to transmit a data packet to the base station system in response to reception of polling of the first type and,
- complementary second circuitry adapted for polling according to a second type, said second polling type requiring the user equipment to transmit a data packet to the base station system in response to reception of polling of the second type,

wherein said first polling type comprises polling with an uplink state flag and said second polling type comprises polling with a control block.

45. (Previously Presented) A base station system according to claim 44, wherein said base station system comprises third circuitry adapted for analyzing the current radio traffic situation in

the communications system and for determining which type of polling to transmit.

46. (Previously Presented) A base station system according to claim 44, wherein said base station system is adapted to perform polling according to the first type on a first logical channel, and to perform polling according to the complementary second type on a second logical channel.

47. (Previously Presented) A base station system according to claim 44, wherein the base station system is adapted to transmit polling information to said user equipment, said information enabling the user equipment to identify the polling type of the received polling.

48. (Previously Presented) A base station system according to claim 47, wherein said polling information is based on a current radio traffic situation in the communication system.

49. (Previously Presented) A base station system according to claim 44, wherein the communications system is selected from at least one of:

- a General Packet Radio Service (GPRS) communication system,

- an Enhanced GPRS (EGPRS) communication system,

- a GPRS/Enhanced Data rates for GSM (Global System for Mobile communications)

Evolution (EDGE) communications system,

- a Wideband Code Division Multiple Access (W-CDMA) communications system,

- a CDMA2000 communications system,

- a Wireless Local Area Network (W-LAN) communications system.

50. (Currently Amended) A base station system node in a packet-based data communications system, said node being adapted to polling connected user equipment, wherein said node comprises

- first circuitry adapted for polling according to a first type, said first polling type allowing said user equipment to choose whether or not to transmit a data packet to the base station system in response to reception of polling of the first type and

- complementary second circuitry adapted for polling according to a second type, said second polling type requiring the user equipment to transmit a data packet to the base station system in response to reception of polling of the second type,

wherein said first polling type comprises polling with an uplink state flag and said second polling type comprises polling with a control block..

51. (Currently Amended) A user equipment in a packet-based data communications system, said user equipment being adapted to receive polling from a base station system in said communications system, wherein the user equipment comprises:

first circuitry for receiving and responding to polling of a first type, said first circuitry being adapted for optional transmission of a data packet to the base station system in response to said polling, and

complementary second circuitry for receiving and responding to polling of a second type, said second circuitry being adapted to mandatory transmission of a data packet to the base station system in response to the polling,

wherein said first polling type comprises polling with an uplink state flag and said second polling type comprises polling with a control block..

52. (Previously Presented) A user equipment according to claim 51, wherein said equipment further comprises third circuitry for identifying the polling type.

53. (Previously Presented) A user equipment according to claim 51, wherein said equipment further comprises:

-a buffer unit for storing user data packets awaiting transmission.

54. (Previously Presented) A user equipment according to claim 53, wherein said first circuitry and said second circuitry are adapted to check if there are any user data packets in the buffer in response to polling from the base station system.

55. (Previously Presented) A user equipment according to claim 53, wherein
said first circuitry is further adapted to receive polling according to said first type on a first logical channel, and

said second circuitry is further adapted to receive polling according to said second type on a second logical channel.

56. (Currently Amended) A system for polling in a packet-based data communications system adapted to polling said system comprising:

means adapted for polling user equipment in said communications system according to a first type and a complementary second type,

first responding means adapted for optionally transmitting a data packet from said user

equipment to a base station system in response to reception of polling according to said first type, and

complementary second responding means adapted for obligatory transmission of a data packet to the base station system in response to reception of polling according to said complementary second type,

wherein said first polling type comprises polling with an uplink state flag and said second polling type comprises polling with a control block.

57. (Previously Presented) A system according to claim 56, wherein the system further comprises:

control means adapted for analyzing the radio traffic situation in the packet-based data communication system, and for selecting which type of polling to perform.

58. (Previously Presented) A system according claim 55, wherein the communications system is selected from at least one of:

a General Packet Radio Service (GPRS) communication system,

an Enhanced GPRS (EGPRS) communication system,

a GPRS/Enhanced Data rates for GSM (Global System for Mobile communications)

Evolution (EDGE) communications system,

a Wideband Code Division Multiple Access (W-CDMA) communications system,

a CDMA2000 communications system,

a Wireless Local Area Network (W-LAN) communications system.

59. (Previously Presented) A polling arrangement according to claim 40,

wherein said user equipment in response to reception of said polling of the second type transmits a user data packet to the base station system if said user data packet is available for transmission in the user equipment, otherwise the user equipment transmits a dummy data packet, and

wherein said user equipment in response to reception of said polling of type one shall send a user data packet to the base station system if said user data packet is available for transmission in the user equipment.

60. (Previously Presented) A polling arrangement according to claim 40,

wherein said user equipment in response to reception of said polling of the first type sends a user data packet to the base station system if said user data packet is available for transmission in the user equipment.

61. (Previously Presented) A base station system according to claim 44,

wherein said user equipment in response to reception of said polling of the second type transmits a user data packet to the base station system if said user data packet is available for transmission in the user equipment, otherwise the user equipment transmits the a dummy data packet, and

wherein said user data packet comprises user payload data and said dummy data packet comprises data enabling the base station system to identify the user equipment.

62. (Previously Presented) A base station system according to claim 44,

wherein said user equipment in response to reception of said polling of the first type sends a user data packet to the base station system if said user data packet is available for transmission in the user equipment.

63. (Previously Presented) A base station system node according to claim 50,

wherein said user equipment in response to reception of said polling of the second type transmits a user data packet to the base station system if said user data packet is available for transmission in the user equipment, otherwise the user equipment transmits the a dummy data packet, and

wherein said user data packet comprises user payload data and said dummy data packet comprises data enabling the base station system to identify the user equipment.

64. (Previously Presented) A base station system node according to claim 50,

wherein said user equipment in response to reception of said polling of the first type sends a user data packet to the base station system if said user data packet is available for transmission in the user equipment.

65. (Previously Presented) A system according to claim 56,

wherein said user equipment in response to reception of said polling of the second type transmits a user data packet to the base station system if said user data packet is available for transmission in the user equipment, otherwise the user equipment transmits the a dummy data packet, and

wherein said user data packet comprises user payload data and said dummy data packet

comprises data enabling the base station system to identify the user equipment.

66. (Previously Presented) A system according to claim 56,

wherein said user equipment in response to reception of said polling of the first type sends a user data packet to the base station system if said user data packet is available for transmission in the user equipment.

67. (Currently Amended) A method for operating a user equipment in a packet-based data communications system, where the user equipment receives polling from a base station system in the communications system, the method comprising:

receiving polling of a first type;

optionally transmitting a data packet to the base station system in response to the first type of polling; and

receiving and automatically responding polling of a second type, wherein the user equipment must transmit a data packet to the base station system in response to the second type of polling,

wherein said first polling type comprises polling with an uplink state flag and said second polling type comprises polling with a control block.

68. (Previously Presented) A method according to claim 67, further comprising identifying the polling type.

69. (Previously Presented) A method according to claim 67, further comprising storing in a buffer user data packets awaiting transmission.

70. (Previously Presented) A method according to claim 67, further comprising checking whether there are any user data packets in the buffer in response to polling from the base station system.

71. (Previously Presented) A method according to claim 67, further comprising:
receiving polling according to said first type on a first logical channel, and
receiving polling according to said second type on a second logical channel.

72-76. Canceled.